

Investigation in the Field of Recover Volatile
Solvent Vapours. IV. Investigation of the
Sorption and Desorption of Chlorinated Organic
Solvents on Activated Carbon, by E. V.
Alaksjevskiy, Ya. D. Musin.

RUSSIAN, per, Zhur Prii Khim, Vol XII,
1939, pp 704-718.

MLL M.3439

Sci. - Chem

193,932

Apr 62

Kinetics of Cracking of Hydrocarbons Under Pressure,
by M. I. Filichev, Kpp.

RUSSIAN, per, Zhur Prikl Khim, Vol. XII, 1939, pp
741-758.

CIA/DD XI-879

NOT RELEASABLE TO FOREIGN NATIONALS

Set - Chem

App 60

Manf

THIS INFORMATION IS UNCLASSIFIED

115, 149

The Cathodic Process During the Formation of a
Diaphragm-Like Layer, by I. G. Sheherbakov, L. V.
Yuzanova, 6 pp.

RUSSIAN, per: Zhur Prikl Khim, Vol XII, 1939, pp
826-830.

SLA/R-2459 also 62-18130

Sci
Apr 39

84,901

Determination of the Structural Groups in
Humic Acids, by R. R. Galle, A. G. Nikolayev,
15 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XII, No 6,
1939, pp 923-933.

SLA 59-22351

Sci

OTS, Vol III, No 7

Nov 60

Dept of Interior
TN 7 E57 No 258
133, 136

A Laboratory Method for the Preparation of Liquid
 N_2O_4 , by I. E. Ioshpe, O. P. Spiridonova, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol. XII, No 6, 1939,
pp 951, 952. CIA 9021244

NIH

Sci - Chemistry
Jul 58

CAST I IT 64-19392

66,432

Shcherbakov, I. G., Markov, B. P., and Azor'er, K. Ya.
 THE ELECTROMOTIVE FORCE OF POLARIZATION
 IN THE ELECTROLYSES OF FUSED CARNALLITE.
 II. INFLUENCE OF CERTAIN TECHNICAL ADMIX-
 TURES IN CARNALLITE ON POLARIZATION. [1963]
 [10] p. 19 refs.

Order from OIS or SIA \$1.10

63-18301

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1939,
 v. 12 [no. 7] p. 976-980.

DESCRIPTOR: *Polarization, *Electric potential,
 Electrolysis, Electrolytes, Potassium compounds, Sul-
 fates, Calcium compounds, Fluorides, Barium com-
 pounds, Chlorides, Tests, Measurement, *Carnallite

The objective was to follow the action of sulfur, BaCl_2
 and CaF_2 admixtures, possessing significance under
 technical conditions, in the electrolysis on the cathode
 process. (Author)

63-18301

I. Shcherbakov, I. G.
 II. Markov, B. P.
 III. Azor'er, K. Ya.
 IV. Title Influence...

(Chemistry--Physical, TT, v. 10,
 no. 11)

Office of Technical Services

Nikolae, N. S.
REACTION OF HYDROGEN SULFIDE WITH SULFUR
DIOXIDE IN AQUEOUS SOLUTIONS. [1963] [18p]
[2refs]

Order from OIS, SLA, or ETC \$1.60 TT-63-20995

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1939,
v. 12 [no. 7] p. 1013-1021.

DESCRIPTORS: *Hydrogen compounds, *Sulfides,
*Sulfur compounds, Dioxides, Chemical reactions,
Water, Solutions.

(Chemistry--Physical, TT, v. 11, no. 3)

TT-63-20995

I. Nikolae, N. S.

Office of Technical Services

Some Properties of Sodium Hexametaphosphate,
by A. K. Bromnikov, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XII, No 9,
1939, pp 1286-1294.

SLA R-2474

Sci.

Aug 58

72,829

Effect of Sesquioxides on the Process of Formation of
Silicon Carbide, by M. V. Kamentsev, 9 pp.

RUSSIAN, no per, Zhur Prikl Khim, Vol XII, 1939,
p 1330.

SLA Tr R-765

Sci - Physics
Sep 57

53,007

On the Mechanism of Iodoxidation of Unsaturated
Compounds, by V. I. Esafov

RUSSIAN, per, Zhur Prii Khim, Vol XII, 1939,
pp 1387-1392.

AEC Tr 1109

Scientific - Chemistry

Zvorykin, A. Ya. and Sokolovskii, A. D.
THE HEATING CURVES OF CARBOHYDRATES.
[1963] Sp. (figs. omitted).

Order from OTS or SLA \$1.10 63-14876

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1939,
v. 12, no. 9, p. 1430-1432.

DESCRIPTORS: *Heating. *Carbohydrates, Chemical
analysis.

(Chemistry - Analytical, TT, v. 10, no. 5)

63-14876

I. Zvorykin, A. Ya.
II. Sokolovskii, A. D.

Office of Technical Services

The Effect of Calcination on the Solubilities
of Glauconite and Phosphorite, by E. N.
Isakov, 12 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XII, 1939,
pp 1644-1652.

SLA F-2177

Sci

Aug 58

172,128

Obtaining Sulphur and Ammonium Sulphate in the
Presence of a Catalyst, by L. I. Kuzmin, V. P.
Konev, 8 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XII, no 12,
1939, pp 1775-1779.

Sci Man Lib No 56/2449

Sci - Chemistry

42, 54.8"

TT-61-16858

Bozhko, N. P.
CRACKING OF METHANE IN ELECTRIC ARC UNDER
REDUCED PRESSURE, II. [1961] 9p. 3 refs
Order from OIS, SLA, or ETC \$1.10 TT-61-16858

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1939,
v. 12, no. 12, p. 1815-1825.

(Engineering-Chemical, TT, v. 12, no. 4)

Office of Technical Services

Preparation of Methyl Chloride From Natural Gas,
by Yu. G. Mamedaliev, V.V. Dement'eva. 8 pp.
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 12,
No 12, 1959, pp 1826-1834
SLA TI-61-16859

Sci/Chemistry
Jul 68

305,993

Determination of Germanium by Means of 8-
Hydroxyquinoline, by I. P. Alimarin, O. A.
Aleksandrov, 9 pp.

RUSSIAN, per: Zhur Priklad Khim, Vol. XII, 1939,
pp 1900-1906.

SLA R-3310

Sci
Jul 59

92, 984

Investigation of Behavior of Titanium Carbide in
Cemented Carbide Alloys, by G. A. Meerson and others.

RUSSIAN, par, Zhur Prikl Khim, Vol XIII, No 1, 1940.

Butcher Tr 1641

13,027
Scientific - Min/Metals

\$8.25
~~Butcher Tr 1641~~

The Equilibrium of the System $P_2O_5H_2O$, by K. I.
Zagladin, Y. M. Fominovich, N. A. Barillo, 12 pp.

RUSSIAN, part, Zhur Prikl Khim, Vol XIII, 1940,
pp 29-30.

SLA/R-2595

DTG 63 14 07

Sci

Apr 50

84,913

Contribution to the Problem of Production of
Metallic Titanium by Electrolysis of Homogeneous
Media, by V. I. Sklyarenko, Ye. M. Lipkes, 9 pp.

RUSSIAN, zhur Prikl Khim, Vol XXII, No 1,
3 194, 194, pp 51-55.

Def Ecl Info Svc
DND Canada T 110 R

also Abstract Tr 21854 2189 - \$5.90

USSR
Scientific - Chemistry

10,779

CIA 2803406

Koller, D. K., Bachel, V. O., and Kal'mn, E. M.
 MECHANISM OF REACTIONS OF ELECTRICAL
 CRACKING OF HYDROCARBONS. [1961] 9p. 27 refs.
 Order from OCS or SLA \$1.10 61-16864

Trudy of Zhurnal Prikladnoi Khimii (USSR) 1960,
 v. 33, no. 12, p. 1102-1117.

DESCRIPTORS: *Hydrocarbons; Decomposition;
 *Methanes; Electric Discharges; Chemical reactions;
 Free radicals.

The yields of acetylene in electrical cracking of
 methane and consumption of electrical energy on its
 formation depend on the temperature of the gas in the
 discharge. In electrical cracking both the electrical
 and thermal energy are to a certain extent interchange-
 able. Change of the value of q by change of the amount
 of electrical energy transmitted to the gas or by its
 preheating gas. Within certain limits, practically the
 same effect with respect to the yield and energy spent
 for cracking of methane. (Author)

61-16864

I. Koller, D. K.
 II. Bachel, V. O.
 III. Kal'mn, E. M.

1 2 3 4 5

Office of Technical Services
 (Engineering - Chemical,
 TI, v. 6, no. 7)

Obtaining Regenerated Humic Acids From
Carbonaceous Shales and Their Properties
(Communication II) by L. A. Khristeva,

RUSSIAN, per, Zhur Pgt Khim, Vol XXIII, No 1,
1940, p 132.

Dept of Interior
TH7 B57 No 450

Sci - Chem

Dec 63

175, 958

Zh Priklad Khim Vol 13, page 170-80 (1940)

Treatment of Chromiferous Ores With Sulfuric Acid in
the Presence of Oxides. Chromic Anhydride as an ~~oxidant~~
Oxidant. by K. I. Losev.

AEC Trans(Avail. Brookhaven)

61-16665

Obolentsev, R.
MECHANISM OF HYDROGENATION OF UNSATURATED HYDROCARBONS. I. COMPOSITION OF TECHNICAL DIISOBUTENE. [1961] 10p. 12 refs.
Order from OTS or SLA \$1.10 61-16665

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940, v. 13, no. 2, p. 198-209.

DESCRIPTORS: *Hydrogenation, *Hydrocarbons, *Butenes, Ethylenes, Polymerization, Gases.

The structure of hydrocarbons composing technical diisobutene has been established. Within the boiling range of Butlerov's diisobutene (100.1 to 103.4°) the following isomers were found: 2,2-dimethyl-3-ethyl-3-butene; 2-methyl-3-isopropyl-3-butene and 3-methyl-3-ethyl-4-pentene. The contents of these isomers in technical diisobutene are of the order of magnitude of their contents in the Butlerov diisobutene. Other (Chemistry--Organic, TT, v. 6, no. 9) (over)

I. Obolentsev, R.
II. Title: Composition...

185397

Office of Technical Services

Musatov, K. A. and Krymova, L. G.
MECHANISM OF DESULFURIZATION OF OIL DISTILLATES WITH ZINC CHLORIDE. [1961] 9p. 12 refs.
Order from OTS or SLA \$1.10 61-16866

61-16866

I. Musatov, K. A.
II. Krymova, L. G.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940,
v. 13, no. 2, p. 227-234

DESCRIPTORS: Hydrocarbons, *Kerosene, Benzene,
*Sulfur compounds, Oils, *Desulfurization, Zinc
compounds, Chlorides.

When zinc chloride is deposited from its aqueous solutions on a porous carrier, zinc oxide and zinc hydroxide are formed by hydrolysis and deposited together with the zinc chloride. In desulfurization with solid zinc chloride, its oxygen compounds have a decisive effect on the extent of desulfurization of the distillate and on the combination of hydrogen sulfide. Taking this into (Chemistry--Physical, TT. v. 6, no. 9) (over)

155398

Office of Technical Services

Musatov, K. A. and Nifontova, S. S.
VAPOR PHASE OXIDATION OF SULFUROUS AND
AROMATIC DISTILLATES WITH SULFURIC ACID.

[1961] 6p. 9 refs.

Order from OTS or SLA \$1.10

61-16867

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1960,
v. 13, no. 2, p. 235-243.

DESCRIPTORS: kerosene, Hydrocarbons, *Sulfur com-
pounds, Oxidation, Sulfuric acid.

In oxidation of oil distillates with sulfuric acid, carbon
and coke catalytically decompose the non-volatile ox-
idation products, liberating hydrogen sulfide. Olefins
and sulfur compounds are oxidized in the vapor phase
much more rapidly than the paraffins and aromatics of
similar boiling range. In the presence of olefins of
sulfur compounds in amounts of 5-10% and higher con-
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16867

L. Musatov, K. A.
I. Nifontova, S. S.

185399

Office of Technical Services

Technology of Producing Heavy Water, by V. A. Aleksandro-
vich, N. K. Shelud'ko,

RUSSIAN, no per, Zhur Prik Khimii, Vol XIII, No 4, 1940,
pp 483-498.

National Research Library No ^{11.} 399

11,008

Scientific - Chemistry

Physicochemical Analysis in the Field of Sulfuric
Acid Treatment of Phosphates, II, by A. A. Taperova,
18 pp. 6

RUSSIAN, Izv. Zhur Prikl Khim, Vol XLII, 1940, pp
643-651.

SLA R-3949

Sci

Aug 59

93,552

Telegin, V.G., Sidorov, N.V., and Shpulenko, K.B.
 DE INVLOED VAN HET GEHALTE AAN ALUMINIUM-
 OXYDE IN EEN IJZERKATALYSATOR VOOR DE
 AMMONIAK-SYNTHESE OP ZIJN ACTIVITEIT BIJ
 ATMOSFERISCHE DRUK (Influence of content of
 Al_2O_3 in the Fe catalysts for synthesis of NH_3 on its
 activity at atmospheric pressure), tr. by G.J.M.
 Pritschy, 13 p. 13 refs. MTWL-489. (Text in Dutch
 Order from OTC or ETC \$0.80 61-17009

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1940, v. 13,
 p. 823-830.

61-17009

1. Ammonia Synthesis
2. Iron catalysts
- I. Telegin, V.G.
- II. Sidorov, N.V.
- III. Shpulenko, K.B.
- IV. MTWL-489
- V. Stichting Moethuis, Toegank-
 lijke Wetenschappelijke Liter-
 atuur

Office of Technical Services

Theory of Equilibrium Concentrations in a
Continuously Flowing Solution and its Application
to Continuous and Standard Reactions of Various
Chemical Processes, by N. I. Kizilov, 40 pp.

~~RUSSIAN~~

RUSSIAN, Izv. Akad. Nauk SSSR, 1940, Vol XIII, No 7,
pp 970-1002.

SLA 59-10542

SLA 59-12319

Sci

Oct 59

Vol 2, No 3

99 910

Dynamics of the Adsorption of Acetylene by silica
Gel from Oxygen-Nitrogen Solution, by I. P. Ishkin,
P. L. Burko, 14 pp.

RUSSIAN, no par, Zhur Prik Khim. Vol XIII, No 7,
1940, pp 1022-1027.

Sci Tr Ctr RT-3846

Sci - Chemistry
Aug 55 CTS/dax

37,534

Phenolic Theory of Coal Oxidation, by
D. V. Troshov, 8 pp.

RUSSIAN, no per, ~~Zhur Prikl Khim~~ Vol XIII,
No 7, 1940, pp 1053-1059.

Sci Tr Center
RT-2213

Scientific - Chemistry
CES 70/101 55

25, 213

Characteristics of Coumarin Solutions in Mineral
Acids and a New Method of Isolation of Pure
Coumarin, by A. K. Shumeiko.

RUSSIAN, PER, Khim Prikl Khim, Vol XIII, 1940, 125
pp 1204-1207.

Assoc Tech Sv
\$6.50 Tr RJ-805

Sci - Chemistry
Aug 57

51, 738

ERELDER, G. S.

Zhurnal Prikladnoi Khimii, vol. 13, 1940, pp. 1267-1270; 2 tables, 1400 words.

Simultaneous Reduction of the Oxides of Iron, Titanium and Columbium with Aluminum.

Butcher Trans, Order No. 1073, \$2.80

Combustion of Carbon. V. Combustion of the Coal
Layer, by Z. F. Chukhanov, H. A. Kargavina, 30 pp.

RUSSIAN, 1980, Zhur Tekh Fiz, Vol X, No 15, 1980,
pp 1255-1267.

SLA 59-10781

Sci
Nov 55
Vol 2, No 3

101,553

Chemistry of Titanium, XVII. The Effect of Calcination
on the Properties of Titanium Dioxide, by A. V. Pamfilov,
E. G. Ivanchova, K. P. Trekhletov, 8 pp.

Ya.

RUSSIAN, Zhur Prikl Khim, Vol XIII, No 9, 1940,
pp 1 10-1314.

Sci Trans Center MT-877

Scientific - Chemistry CTS/DEX

14,040

Kinetics of the Absorption Process and Test of
Packing in the Gay-Lussac Semi-Industrial Tower,
by I. N. Kuz'mirskiy, E. V. Yushmanov, I. A.
Apakhov, 15 p

RUSSIAN, per, Zhur Prih Khim, Vol XIII, 1940, pp
1417-1426.

SLA R-3029

Sci

Jul 59

92,413

On the Precipitation of Tin With Phenylarsonic
Acid, by W. I. Kuznetsov, 11 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, 1940,
pp 1512-1516.

AEC UCRL-Tr-572(L)

Sci - Chem
21 Feb 61

140, 914

Application of the Potentiometric Titration
Method in the Chemical Investigation of
Soap, by A. P. Vishniskov and N. A. Ro-
dichev, 13 pp.

RUSSIAN, per, Zhur Prii Khiz, Vol XIII, No
10, 1940, pp 1517-1522.

Assoc Tech Serv

Sol

Aug 58

72, 8.25

Physicochemical Properties of Rare Metals. II. The
Diagrams of State of the Systems $ZrCl_4$ -NaCl and
 ZrO_2 -CaCl₂, by N. A. Belozerskiy, O. A. Kucherenko.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, No 11p 1940.

AEK Tr 113

AEK Tr 325

Scientific - Chemistry

15,840

Zhur Pri Khim Vol 13, No 11, pp 1545-51, 1940

Directions for Preparation of
the Pure Salts $ZrCl_4$ & $TiCl_5$.

Belozerskiy & Kucherenko

Proj 6459

IT-1544.1

SR 30 June 1950

Synthesis of Vinyl Acetate in the Vapor Phase,
by S. N. Ushakov, E. N. Rostovskiy, I. A.
Arbuzova, 13 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIII, No 11, 1950,
pp 1829-1837

CIA/FDD/X-1246

Scientific - Chemistry
CTS/DEM

10,061

HERKIN, H. J.
K. J. H. H. A.
K. J. H. H. A.

General published in vol. 13, 1940, pp. 1770-
1776; 8 tables, 3500 words.

Reduction of Cotton of High-Density Kebab; with
Colonial System.

Deutsche Trans, Order No. 1150, \$7.55.

Preparing Ithidium and Cesium by Reducing Their
Chlorides, by V. D. Polyakov, A. A. Petrov, 8 pp.

RUSSIAN, per, Izv. Prikl. Khim., Vol XIII, 1940,
pp 1833-1838.

LQ or CIA 59-10007

Sci - Chemistry
Feb 59

1.80

82,005-

The Kinetics of the Dissociation of Pyrite, by
G. I. Chufarov, V. S. Udintsova,

RUSSIAN, no per, Zhur Prikl Khim, Vol XIV, No 1,
1941, pp 3-10.

Sci Tr Center EE ET.371

Scientific - Chemistry

*Butch for and Stat Ref'd 147
(no number given).*

The Vapor Pressure of Fluosilicic Acid Solutions,
by V. B. Yatslov, E. M. Pinayevskaya.

RUSSIAN, no per, Zhur Prii Khim, Vol XIV, No 1,
1942, pp 11-13.

Assoc Tech Sv RJ-526
\$4.25 (\$.85)

Sci - Chemistry
Apr 1957 CTS/dax

46.783

SLA 12-2757

Velocities of High-Temperature Processes. I. Kinetics
of the Reduction of Magnesium Oxide by Various Re-
agents, by N. S. Mikulinakiy, 17 pp.

RUSSIAN, part, Zhur Fizik Khim, Vol XIV, 1941, pp 19-
29.

SIA/R-2517

Sci
Apr 59

84,884

Vallois: Les of High-Temperature Processes, by A.
S. Paul Lushky, P. B. Maron, 13 pp.

MESSIAH, par, Zhar Erik Khin, Vol. XIV, 1941,
pp 30-33.

SIA R-2513

Sol. - Mayr

Jun 59

89,559

Dmitriev, P. I. and Dogadkina, L. A.
ALKYD RESINS ON THE BASE OF POLYGLYCOLS
AND POLYGLYCEROLS. [1962] [15]p. (refs. omitted).
Order from OITS or SLA \$2.60

62-18189

I. Dmitriev, P. I.
II. Dogadkina, L. A.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941,
v. 14, no. 1, p. 11-15.

DESCRIPTORS: *Plastic films, *Alkyd resins, Production,
*Glycerol, *Glycerols, Polymers, Hardness,
Elasticity, Viscosity.

(Materials--Paints, 77, v. 10, no. 1)

Office of Technical Services

Study of Conditions of Carburization of Titanium, by
G. A. Meerson and Ya. M. Lipkes.

RUSSIAN, Zhurnal Prikl Khim, Vol XIV, No 3, 1941.

Brutcher Tr 2099

4103

Scientific + Min/Materials

\$2.80

Abdulayev, Ya. A.
SOLUBILITY OF NITROGEN-HYDROGEN MIXTURE
IN LIQUID CARBON DIOXIDE. [1961] [7]p.
[DSR LLL] M.1899
Order from IC or SLA ml\$1.80, ph\$1.80 61-13294

Trans. of Zhurnal Prikladnoy Khimii (USSR) 1941.
v. 14, no. 3, p. 302-304.

61-13294

1. Nitrogen--Solubility
2. Hydrogen--Solubility
3. Carbon dioxide (Liquid)--
Solvent properties
4. Ammonia--Synthesis
1. Abdulayev, Ya. A.
- DSR LLL M.1899

(75-2000)

100580

Office of Technical Services

(Engineering-Chemical, TT, v. 5, no. 12)

Concerning Certain Factors That Determine the
Electrical Properties of the Lead Accumulator,
by P. D. Samsonov, N. G. Kuznetsova, 45 pp.

RUSSIAN, Per, Zhur Prikl Khim, 1941, Vol XIV,
pp 317-334.

SLA 59-10133

M. H. 9315

Sci
Nov 59
Vol 2, No 3

100,942

61-18072

Streikov, P. G. and Lin'kov, V. I.
STANDARDIZATION OF A RESISTANCE THERMOMETER AT THE OXYGEN POINT. [1961] 13p. 12 refs. I. Streikov, P. G.
Order from OTS or SLA \$1.60 II. Lin'kov, V. I.
61-18072

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1961,
v. 31, p. 367-377

DESCRIPTORS: *Resistance thermometers, Thermometers, Standardization, Oxygen, Determination.

(Physics-Thermodynamics, TT, v. 7, no. 9)

Office of Technical Services

A Comparison of the Frothing-Over in a Steam Boiler
With a Geyser Eruption, by S. A. Durov.

RUSSIAN, per, Zhur Prik Khin, No 3, 1941, pp 368-371.

WLL M. 3023

Sci

Feb 62

186, 257

Zel'kind, Yu. and Khushkivadze, A.
PREPARATION OF DIBASIC ACIDS FROM OIL DIS-
TILLATES. [1961] 4p. 8 refs.
Order from OTC or SLA \$1.10

61-16881

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1961, v. 14, no. 3, p. 405-409.

DESCRIPTORS: *Kerosene, Oxidation, *Dibasic acids,
Synthesis, Adipic acid.

Experiments of oxidation of kerosene fractions with ni-
tric acid of specific gravity 1.4 are reported. The best
yield (12.26%) of dibasic acids was obtained from an oil
fraction boiling at 210-215°; of these, 6.12% consisted
of adipic acid. The yield of the latter increases in the
presence of vanadium pentoxide. Oxidation of decalin
with nitric acid gives glutaric and oxalic acids; when
other petroleum hydrocarbons are added, adipic acid
(Chemistry--Organic, TI, v. 6, no. 9) (over)

61-16881

L. Zel'kind, Yu.
II. Khushkivadze, A.

165401

Office of Technical Services

61-18011

Belandin, A. A., Zelinskii, N. D. and others.
PREPARATION OF 1,3-BUTADIENE BY CATALYTIC
DEHYDROGENATION OF 1-BUTENE. [1961] 9p.

15 refs.

Order from GPO or SLA 51.10

61-18011

Trans. of Zinat' Prilozheniia Khimii (USSR) 1961,
v. 24, no. 435-445.

DESCRIPTORS: "Butadienes, Synthesis, "Butenes,
Dehydrogenation, Catalysts.

The catalytic dehydrogenation of 1-butene to 1,3-butadiene was investigated in the presence of carbon dioxide as an additive. The conditions were established under which butadiene is formed in yields of up to 34% on the vessel, or 77% on the decomposed, butene. The reaction is carried out under atmospheric pressure, at 600°, with a contact period of 0.3 seconds and dilution of butene with carbon dioxide in the ratio of 1:7.5 by

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 7)

(over)

Rakavskii, B. V. and Burinova, O. A.
PRODUCTION OF HYDROGEN BY CONVERSION OF
HYDROCARBONS WITH STEAM. [1961] 17p. 13 refs.
Order from CTS or SLA \$1.60 61-16917

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941,
v. 14, p. 449-463.

DESCRIPTORS: *Hydrogen, Production, *Hydrocarbons
Decomposition.

With the aid of catalysts composed of nickel and oxides
of heavy metals, an extent of conversion of lower
saturated and unsaturated aliphatic hydrocarbons can
be achieved corresponding to the theoretical limit.
The temperature of complete conversion of hydrocar-
bons with steam, including methane, does not exceed
750-800°. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16917

I. Rakavskii, B. V.
II. Burinova, O. A.

Office of Technical Services

Kinetics of Oxidation of Ammonia by Air Enriched
with Oxygen, by V. I. Atroschenko, E. G. Sedashova,
10 p.

RUSSIAN, per, Zhur Prikl Khim, Vol XIV, 1941,
pp 500-506.

SLA
R-2959

Sci

Jul 59

92 383

61-18077

Zhurav, B. N. and Yakubson, N.
COPOLYMERIZATION OF METHYL ISOPROPENYL
KETONE AND METHYL METHACRYLATE. [1961]

74, 6 rows

Order no. 3015 or S.A. \$1.10

61-18077

Condensed from: Zhurnal Prikladnoi Khimii (USSR)
1941, No. 12, no. 5, p. 328-334.

DESCRIPTORS: Copolymerization; Ketones;
*Acrylates; Polymers.

Experiments were carried out showing that copolymer
of methyl isopropenyl ketone and methyl methacrylate
can be prepared in which the monomers are equally
distributed throughout individual fractions of the product.
In the absence of solvents, copolymers were ob-
tained with a content of the ketone amounting to 25 and
42.5%. In the presence of 50% ketone, no polymer is
formed. Copolymerization in solution gave copolymers
containing 50.25 and 42.5% ketone. The polymers pre-
[Chemical Abstracts, 47, 6, pp. 71] (over)

Office of Technical Services

Baron, I. N. and Gomonarov, G. S.
 COPOLYMERIZATION OF STYRENE WITH METHYL
 ISOETHYL KETONE. [1964] 6 p. 6 refs.
 Order from OLS of SLA \$1.10 64-16887

Condensation of Zhuravil' Prilubac Khimii (USSR)
 1941, no. 10, p. 542-550.

DESCRIPTION: Copolymerization of Styrenes,
 Ketones, Polymers.

The method and conditions favoring copolymerization
 were investigated on the example of styrene and methyl
 isopropyl ketone. Simultaneous of methyl isopropyl
 ketone and styrene polymerization of styrene to
 emulsion, but addition exceeding 10% of the ketone
 leads to a sharp decline. Polymerization in emulsion in the
 presence of 10% ketone does not give copolymers.
 In the presence of hydrogen peroxide, conditions
 may be created leading to its formation. Under favorable
 conditions, copolymers are formed (the chemical
 composition of OLS, T.T. v. 6, no. 7) (over)

64-16887

I. Baron, I. N.
 G. S. Gomonarov, G. S.

736

Office of Technical Services

61-16971

I. Pavlovich, P. I.

Pavlovich, P. I.
POLYMERIZATION OF VINYL CHLORIDE IN SOLUTIONS AND EMULSIONS, II. [1961] 10p. 20 refs.
Order from OTS or SLA \$1.10 61-16971

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941, v. 14,
p. 555-558

DESCRIPTORS: *Vinyl chlorides, *Polymerization, Polymers, Benzoyl radicals, Peroxides, Colloids, Stability, Benzaldehyde, Acetaldehydes, Acetic acids, Hydrogen compounds, Barium compounds, Catalysts, Solutions.

It was proved that benzoyl peroxide can be substituted for polymerization of vinyl chloride by hydrogen peroxide or barium peroxide and easily oxidizable substances, namely, benzaldehyde, acetaldehyde, acetic acid, acetic anhydride. Acetyl benzoyl peroxide gave (Chemistry--Organic, TT, v. 6, no. 10) (over)

Office of Technical Services

A Study of the Effect of the Conditions of Formation
on the Physicochemical Properties of Cellulose
Acetate Films, by A. A. Moynayev, E. A. Rogovin,
13 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XIV, No 4/5,
1941, pp 579-585.

BIA 59-10723

Sci
Nov 59
Vol 11, No 3

101, 535

Investigations in the Field of the Azo Dyes.
II. Soluble Forms of Insoluble Azo Dyes, by
V. N. Urinsev, 11 pp.

RUSSIAN, no per, Zhur Prikl Khim, Vol XIV, No 4/5,
1961, pp 600-604.

NIH Tr 7-20

50,745

Sci - Chem
Aug 57

61-16923

Belonko, A. L. and Mitroenko, G. I.
HIGH MOLECULAR PRODUCTS OF CONDENSATION
OF BENZENE WITH DICHLOROETHANE: METHOD
OF THEIR SYNTHESIS AND INVESTIGATION OF
THEIR COMPOSITION AND STRUCTURE, [1964] 125
20 (1964)

Order from CTR on SLA 51-60

61-16923

Trans. of Zashchita Khim. (USSR) 1941,
14, 1, 718 (1941)

DISCRIPTORS: Condensation reaction; *Benzene;
Ethers; *Chlorides; Synthesis

In general, a good condensation of benzene with di-
chloroethane is obtained when the best yield, from 85 to
87% of product, is obtained in a ratio of a proportion of
2:5, which is the best for benzene in the pres-
ence of 2.7% metallic aluminum in benzene. Tetrachloro-
ethane is well refined by drying over cal-
cium chloride, heating with from 2 to 5% concentrated
(Chem. Abstr. 57, 1, 100, 7) (over)

L. Kabanov, A. L.
H. Mitroenko, G. I.

CTR 61-1731

1941

Office of Technical Services

Khamov, M. C. and Popov, K. K. RAPID METHOD OF DETERMINATION OF TETRA- ETHYL LEAD IN LEADED GASOLINES. [1961] 8p. 14-110 Order from O.S. or S.L.A. \$1.10	61-18038
Trans. of Zhurnal Prikladn. Khim. (USSR) 1961, No. 14, p. 2276G.	I. Khamov, M. C. K. Popov, K. K.
DESCRIPTORS: *Gasoline, Chemical analysis, *Lead compounds, Ethyl standards, Determination.	1961
(Chemistry - Analytical, TT, C, 6, 19, 7)	Office of Technical Services

Belopol'skiy, A. P. and Shpunt, S. Ya.
THE SYSTEM $\text{H}_2\text{SO}_4 \cdot \text{H}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ AT 50-90° C.
Nov 50 [24] p. 28 refs. BISI-409; TL 734; [DSIR LLU]
M 2070.

Order from OTS or SLA \$2.60

61-1347

Trans. of Zhurnal Prikladnoy Khimii (USSR) 1941,
v. 14, no. 6, p. 716-733.

DESCRIPTORS: *Iron compounds, *Sulfates, *Sulfuric
acid, Water, Temperature, *Phase studies *Solubility.

(Chemistry--Physical, TT, v. 6, no. 1)

61-1347

- I. Belopol'skiy, A. P.
- II. Shpunt, S. Ya.
- III. BISI-409
- IV. Trans-T/L-734
- V. DSIR LLU M. 2070
- VI. British Iron and Steel
Industry Translation
Service

161668

Office of Technical Services

Zh Priklad Khim Vol 14, page 783-9 (1941)

Contact Surfaces of the Phases as the Main Factor of
Chlorination of Sodium Sulfate. by B. A. Kopylev and
L. P. Svyantnaya.

AEC Trans (avail. Brookhaven)

Kreshnov, A. P.
 CHLORINATION OF METHANE IN THE PRESENCE
 OF STEAM
 Order from OTS or SLA \$1.10 61-18601

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941,
 v. 14, p. 800-804.

DESCRIPTORS: *Methanes, *Chlorination, Chlorides,
 Steam.

In interaction of chlorine with steam, oxygen is formed
 by the reverse Boudou reaction and this nascent oxygen
 returns the chlorination, as indicated by Peave and
 Vain; furthermore, it oxidizes methane and the gas
 which is chlorinated. At high temperature in the
 presence of catalysts, the chlorine derivatives of
 methane formed in the course of chlorination are partly
 hydrolyzed. Methane interacts with steam, carbon
 dioxide and other reaction products. Contrary to the
 statements by A. A. chlorination of methane in the
 (Chemistry--Organic, TC, v. 6, no. 7) (over)

61-18601

I. Kreshnov, A. P.

Office of Technical Services

Dentser, A. I., Tikhchev, M. D., and Prost, A. V.
KINETICS OF CRACKING HYDROCARBONS. [1961]
5p. 14 refs.
Order from OTS or SLA \$1.10 61-18000

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1941,
v. 14, p. 835-840.

DESCRIPTORS: Hydrocarbons. Decomposition,
Reaction kinetics.

51-18000

I. Dentser, A. I.
II. Tikhchev, M. D.
III. Prost, A. V.

154,45

Office of Technical Services

(Engineering-Chemical, TT, v. 6, no. 7)

Methods for Synthesis of Acetylfluoride and
Its Derivatives. I. Fluorohydrides of
Carbonic Acids, by A. I. Mashentsev, 80 pp.

RUSSIAN, no per, Zhur Prikl Khim, Vol 1.V,
No 6, 1941, pp 815-826.

Sci Tr Center
RT-2234

Scientific - Chemistry
CIS 70/Jul 55

25, 227

61-18033

Margois, L. D.
CANDIDATE FOR TOLUENE TO BENZALDEHYDE

L. Margois, L. D.

[1961-62, 10 ref]

Under Sec. 015 of S.A. 51-10

61-18033

Trans. of Chem. Soc. (London) 1941.

No. 11, p. 2783

DESCRIPTORS: *Toluenes, Oxidation, *Benzaldehydes,
Electrolysis, *Electrochemistry

Oxidation of toluene to benzaldehyde can be carried out with an anodic agent capable of electrolytic regeneration. For this purpose a solution of manganese sulfate of sufficient specific gravity (1.50) is suitable.

The oxidizing agent may be regenerated in an apparatus described electrolytically without a diaphragm. This may easily be carried out under plant conditions. The optimal conditions of oxidation of toluene and of regeneration of the oxidizing agent are: (a) specific gravity of solution 1.50, (b) for the bath, 1.50%, (c) temperature (Chemistry-Organic, TT, v. 6, no. 7) (over)

Office of Technical Services

61-16939

Zahavin, V. I.
SUBSTANCES ISOLATED FROM PRIMARY TARS
WITH PETROLEUM ETHER, II. [1961] 8p. 6 refs.
Order from OTS at SLA \$1.10 61-16939

Trans. of Kharkov Polytechnic Institute (USSR) 1961,
v. 14, p. 849-855.

DESCRIPTORS: Petroleum, *Tars, Decomposition,
Separation, Coal, Chemical reactions, Solubility,
Solvents.

A study of the substances insoluble in petroleum ether
and included in the composition of primary tars of
Cheremkhovo coal, Aleksandriya brown coal and
Kashgar shale revealed that these primary tar com-
ponents of the two coals constitute a mixture of sub-
stances of humic and resinous character. The humic
portion of Cheremkhovo coal tar is neutral in charac-
ter, while that from the Aleksandriya coal possesses
(Engineering-Chemical, TT, v. 6, no. 12) (over)

I. Zahavin, V. I.

1961

Office of Technical Services

Equilibrium Diagram for the System CaO-SiO_2 , by
K. K. Kolobova, 17 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XIV, 1941, pp
928-948.

SLA R-2244

Sci

Aug 58

72,186

62-20273

Klochko, M. A. and Medvedeva, Z. C.
USE OF PALLADIUM IN ELECTROLYTIC COATINGS.

23 Jan 46, 18p. (Figs. tables refs. omitted).

Order from OTS or SLA \$1.60

62-20273

I. Klochko, M. A.

II. Medvedeva, Z. C.

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1942,
v. 15, no. 1/2, p. 23-40.

An abstract trans. is available from OTS or SLA \$1.10
in 61-20338 [1961] 4p.

DESCRIPTORS: *Palladium, *Electroplating, Coatings,
*Finishes, Palladium compounds.

Studies were made of the conditions for the securing of
lustrous and dense Pd deposits from palladous chloride
and chloro palladates of sodium, potassium and ammo-
nium, as well as from the solutions of the complex Pd
compounds containing the groups: NH₃, PO₄, NO₂ and
Cn.

(Metallurgy, IT, v. 2, no. 9)

Office of Technical Services

Application of Electrochemical Methods for the
Production and Refining of Platinum Metals in Russia
by M. A. Khrushch, L. S. Medvedev, 9 pp.

RUSSIAN, part, Zhuravskii, Vol. IV, No. 1/2, 1962.
12-75471

SIA 59-10605

201-10605
201-10605
Vol. IV, No. 2

78, 005

61-20334

JOURNAL OF APPLIED CHEMISTRY, 1942, VOL. 15,
NO. 1: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. (1961, pp. 18 refs.)

Order from OCS or SIA \$1.10

61-20334

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1942, v. 15, no. 1: pp. 101-104, *128-130, 164-171,
173-181.

*Complete translations are available separately.

DESCRIPTORS: *Chlorine, *Bromine, Sources,
Catalysis, Hydrogenation, *Butenes, Butadienes,
Reduction, Decomposition, *Cyclohexanes, High tem-
perature research, Catalysts, Metals, *Anthracenes,
Sulfonic acids, Solubility, Salts, *Fuels, Carboniza-
tion, Fluidized solids.

Contents:

Some new sources of bromine, by I. G. Druzhnin
(Chemistry, IT, v. 7, no. 1)

(over)

I. Title Solubility, ...

II. Title Carbon ...

Office of Technical Services

Balandin, A. A., Zelnakht, N. D. and others.
CATALYTIC DEHYDROGENATION OF BUTENE TO
BUTADIENE UNDER REDUCED PRESSURE. [1961]
11p. 15 refs.
Order from OTS or SIA \$1.60 61-16636

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1942,
v. 15, p. 128-138.

DESCRIPTORS: *Butadiene, Dehydrogenation,
*Butenes, Chromium catalysts.

Research on dehydrogenation of 1-butene to 1,3-butadiene was continued by employing a pressure of 180 mm and two chromium catalysts. The effect of the contact period and the temperature were systematically investigated. Occurrence of two consecutive reactions was established consisting in formation and decomposition of butadiene. The highest yield of butadiene was obtained at 592° and a rate of flow of 2,000 liters per liter catalyst per hour. This yield amounted to 29% on the (Chemistry--Organic, IT, v. 6, no. 6) (over)

61-16636

I. Balandin, A. A.
II. Zelnakht, N. D.

176561

Office of Technical Services

61-16919

Balandin, A. A. and Kotelkov, N. Z.
DEHYDROGENATION AND DECOMPOSITION OF
CYCLOHEXANE AT HIGH TEMPERATURES OVER
METALLIC CATALYSTS. [1961] 14p. 19 refs.
Order from OTS or SLA \$1.60 61-16919

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1962,
v. 15, p. 139-150.

DESCRIPTIONS: Cyclohexanes, Dehydrogenation,
Decomposition, Catalysts.

Catalytic dehydrogenation and decomposition of cyclo-
hexane was investigated at 300-600°C over electrically
heated coils of nichrome, platinized nichrome, pal-
ladized nichrome, iron and chromium-plated iron, using
a specially constructed apparatus distinguished by a
number of advantages over the conventional catalytic
equipment. Kinetic data for these reactions were ob-
tained and a hypothesis of dendritic deposition of carbon,
based on the multiplet theory of catalysis, is suggested
as an explanation of the data obtained. (Author)

I. Balandin, A. A.
II. Kotelkov, N. Z.

15112

Office of Technical Services
(Chemistry--Organic,
TT, v. 6, no. 7)

Shostakovskii, M. P. and Bogdanov, I. P.
POLYMERIZATION OF SIMPLE VINYL ETHERS. I.
VINYL BUTYL ETHER. [1963] [21p] (figs omitted)
10 refs

Order from OTS or SLA \$2.60

63-20173

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1962
v. 15 (no. 4) p. 249-259.

Abstract trans. is available from OTS or SLA \$1.60
in 61-2035 [1961] 11p.

DESCRIPTORS: *Vinyl radicals, *Butyl radicals,
*Ethers, *Polymerization, Catalysts, *Iron catalysts,
Chlorides, Purification, Density, Refractive index,
Viscosity.

(Chemistry--Organic, TT, v. 10, no. 12)

63-20173

I. Title: Vinyl Butyl ethers
I. Shostakovskii, M. P.
II. Bogdanov, I. P.
III. Title: Vinyl . . .

Office of Technical Services

Synthesis and Properties of Aryl Vinyl Ethers, by
M. F. Shostakovskiy, M. S. Burmistrova, 11 pp.

RUSSIAN, in: Zhur Prikl Khim, Vol IV, No 4,
1942, pp 260-266.

Sci Tr Center RT 3501

Scientific - Chemistry

36,136

Jun 56 CFS

Decomposition of Phosphorites by a Mixture of
Sulfur Dioxide and Nitrogen Oxides, by G. A. Yakovkin,
15 pp.

RUSSIAN per, Zhur Prikl Khim. Vol. IV, 1942, pp
pp 275-289.

SLA R-2834

Sci

Jul 59

92, 644

On Catalysts for the Reaction of Formation
of Carbon Disulphide from Elements, by
L. M. Markovskiy, N. Khroselkova,
UNCLASSIFIED

RUSSIAN, per, Zhur Erik Khim, Vol. XV, No 5,
1942, pp 290-301

Inedoc

~~SECRET~~

T. 654

20,548

Scientific - Chemistry Jan 53 CTS
Indian National Sci Doc Center, Natl Physical Lab
of India, Hillside Rd., New Delhi-12, India

Kuperman, G. M.
 RECLAIMING SULFURIC ACID SOURCES FORMED
 IN OIL REFINING (1961) Sp. 25 refs.
 Order from OTS or SLA \$1.10 61-16648

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
 1941, v. 14, p. 319-330.

DESCRIPTORS: Sulfuric acid, Separation,
 Petroleum, Oil, Processing, Recovery, Electrolysis.

It was established that sulfuric acid can be reclaimed
 from acid treated oil black acid by electrolytic means.
 The concentration of the obtained acid can be raised to
 70% by evaporation before or after the electrolytic
 treatment. The color of the final acid is appropriate
 for industry, and when determined with a Dubonch
 apparatus it ranges from 5.3 to 29.5 mm. Technical
 sulfuric acid, the color of which was determined at the
 place to be 84.1 mm, showed a very small content of
 (Brazhinskii-Chernitsin, IT, v. 6, no. 7) (over)

61-16648

I. Kuperman, G. M.

1017 5

Office of Technical Services

61-18178

I. Berkengelm, A. M. and Polunina, E. P.
 EMULSIFYING LUBRICATING OILS WITH PRODUCTS
 OF SULFONATION OF SHALE TAR. [1961] 6p.

4 refs.

Order from GTS or SLA 51.10

61-18178

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943,
 v. 16, p. 361-362.

DISCRIPTION: Lubrication, Oils, Colloids,
 Sulfonation.

Sodium salts of sulfonic acids prepared from shale tar
 fractions are a good emulsifier of lubricating oils. In
 comparison with naphthenesulfonic acids a consider-
 ably smaller amount of this agent is required. Prepa-
 ration of concentrated emulsions can be effected at
 room temperature, which simplifies the manufacturing
 process. No alcohol is required for the preparation of
 an emulsion. The corrosion of steel is completely pre-
 vented by adding to the aqueous emulsion up to 0.5%
 sodium carbonate. (Author)

I. Berkengelm, A. M.
 E. Polunina, E. P.

Office of Technical Services

(Materials--Lubricants,
 17, v. 6, no. 7)

The Synthetic Rubber Industry During the Twenty-
Five Years of Soviet Power, by N. J. Linnov,

RUSSIAN, from Zhurnal Prikladnoi Khimii, Vol. 31, No. 6, 1958,
pp. 1121-1130.

REF ID: A66001

U.S.S.R.

Chem.

Q 150

Development of Methods of Plastic Explosive
Detection by X-Ray

REPORT OF THE COMMISSION OF THE EUROPEAN COMMUNITIES
ON THE PROGRESS OF THE WORK

COMMISSION OF THE EUROPEAN COMMUNITIES

1988

1988

Oct 81

Vapour Pressure of Sulphides of Antimony, Lead,
Cadmium, and Zinc, by B. K. Veselowski¹.

RUSSEIAN, per, Zhur Prikl Khim, Vol 15, No 6, 1942,
422-435.

~~SECRET~~ Sci Museum Lib No 50/3539. London

Sulphate Nitrophoska I. II. Polytherm of the
Reversible Reciprocal System of Sulphates and
Nitrates of Potassium and Ammonium, by I. N.
Nikonova and A. G. Bergman, 11 pp.

RUSSIAN, per, Zhur Prii Khim, Vol. XV, 1942, pp
437-446.

SLA R-2286

Sci

Aug 58

72,193

Kinetics of Reduction of Cu^{++} To Cu^+ by Carbon
Monoxide, in Ammoniacal Solutions, by E. I.
Dontsova,
UNCLASSIFIED

RUSSIAN, per, Zhur Prii Khim, Vol. 15, 1942,
pp 417-422.

Assoc Tech Ser, RJ-80
Price: \$9.50 (\$1.20)

Scientific - Chemistry

18,095
R-2217
SLA R-2092

Shchegolev, Boris and the KGB, by I. Kh.
Pezhman, E. S. Troynova, 8 pp.

RUSSIAN, Ser. Zhurnal Prikladnoi Khimii, Vol
XVI, No 1, 2, 1943, pp 15-19.

Sci Tr Center RT 36 03

36, 152

Chemistry

JUL 56 CTS

Preparation of Hydrophobic Cellulose, Part I., by D. N.
Kursanov, V. N. Setkina, 2 pp.

RUSSIAN, per. Zhur Prikl Khim, Vol. XVII, 1943, pp 36-45.

CIA/FDD/X-1315

Scientific - Chemistry

EE DEM

14,087

Kazakov, E. I., Edel'shtein, N. G., and Chegis, A. P.
CHEMICO-TECHNOLOGICAL INVESTIGATION OF BITUMINOUS SHALES OF THE MANTUNOV FIELD.
[1961] 5p. 2 refs.

Order from OTS or SLA \$1.10

61-16957

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1943, v. 16, p. 72-77.

DESCRIPTORS: Fuels, *Shales, *Bitumens, Gasoline,
Sulfur, Chemical analysis, USSR.

Three samples of shale from the Ufol'se section of the Mantunov deposit (Gor'kii and Ivanovo regions on the Volga) have been investigated. The first sample contains 44% ash and has a calorific value of over 4,000 cal. The yield and composition of primary tar are advantageous for its use as fuel and make it a suitable material for preparation of motor fuel. Shales from (Materials--Fuels, IT, v. 6, no. 10) (over)

61-16957

1. Kazakov, E. I.
11. Edel'shtein, N. G.
111. Chegis, A. P.

Office of Technical Services

Simonova, L. K.
DETERMINATION OF THERMAL CONSTANTS OF
ACTIVATED CARBON AND SILICA GEL. (1961) 5p.
7 refs.
Order from OTS or SLA \$1.10

61-16958

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1943, v. 16, p. 87-94.

DESCRIPTORS: *Gels, *Silicon compounds.
*Activated carbon, Colloids, Conductivity, Tempera-
ture, *Heat transfer, Calorimeters.

The heat capacities, thermal conductivities and tem-
perature conductivities of three samples of activated
fruit pit carbon and of one sample of silica gel were
determined at 0, 20 and 70°. The temperature con-
ductivity of powdered samples increases over that of
granulated samples at the average by 11.1%; the corre-
sponding increase in the thermal conductivity is 35.9%.
(Physics--Thermodynamics, TT. X. A. no. 21)

61-16958

I. Simonova, L. K.

85414

Office of Technical Services

Symposium on Vietnam, by A. L. ... 21-22.
RUSSIAN, ... Zhur Prikl Khim, Vol XVI, ¹⁶³⁴ 1943,
pp 105-117

REC-HP-1051

Sci-Them
Jan 61

AKO (Info.) (K). 5822-1 1963 (10, 11)

248,347

Pesin, L. M., Kelyanina, E. T., and
Pavlovskaya, V. A.
HYDRATION OF CAMPHENE TO ISOBORNEOL

(1961) Sp. 1, ref.
Order from OTS or S.L.A. \$1.10

61-16985

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1948, v. 10, p. 135-138.

DESCRIPTORS: *Sulfonic acids, *Camphene, Hy-
drates, *Campharol.

Hydration of camphene in acid medium was investi-
gated in the presence of refined H₂SO₄ (contact
mixture of sulfonic acids). An 80% yield of a crystal-
line product was obtained containing over 60% isobor-
borneol and about 40% camphene. (Author)

(Chemistry--Organic, TT, v. 8, no. 10)

61-16985

I. Pesin, L. M.
II. Kelyanina, E. T.
III. Pavlovskaya, V. A.

Office of Technical Services